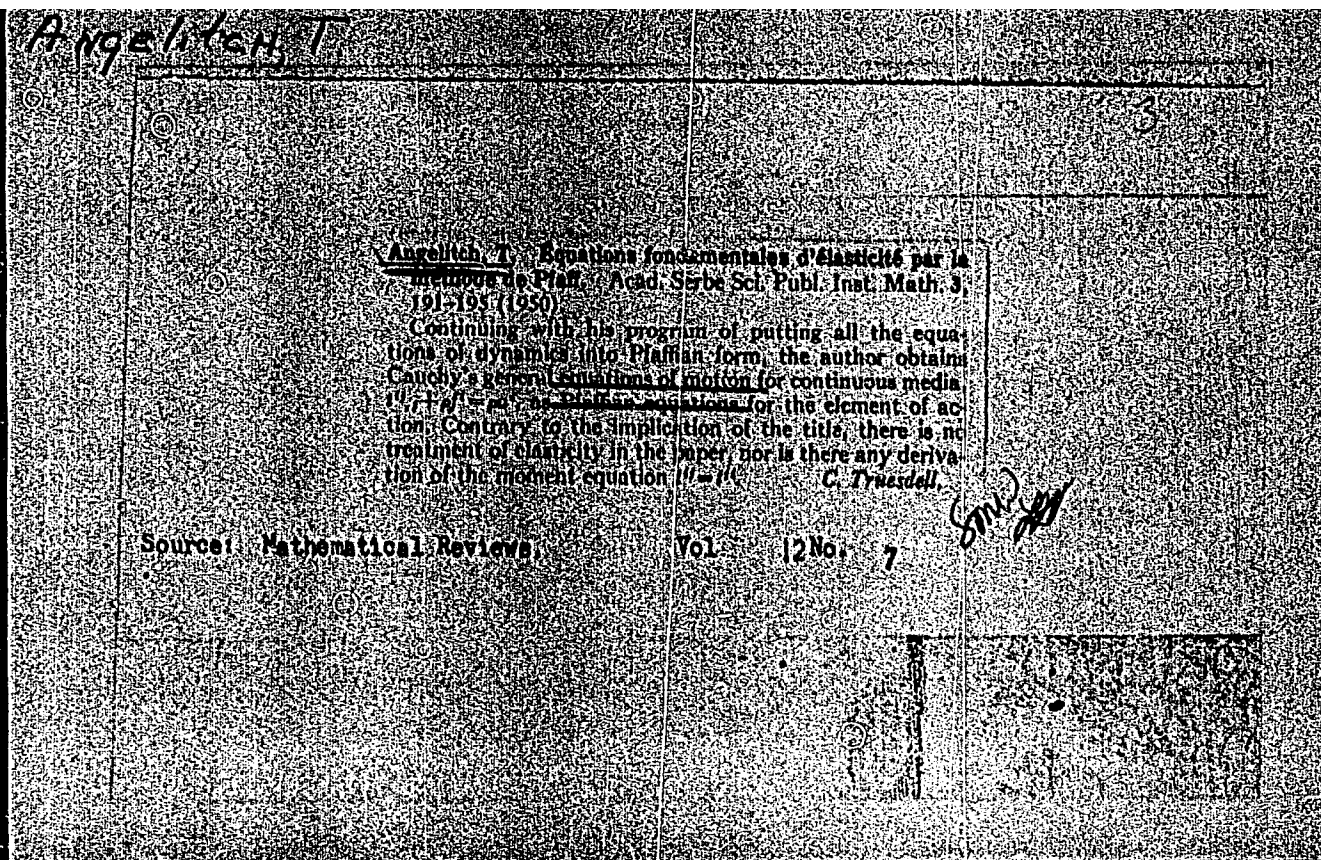




ANGELITCH, T. P.

Mathematical Review  
June 1954  
Mechanics

10-4-51 LL

Angelitch, T. P. Eine Bemerkung zu den Gleichungen von Beltrami-Michell. Acad. Serbe Sci. Publ. Inst. Math. 5, 1-4 (1953).

The author attempts to translate the usual derivation of the Beltrami-Michell equations into tensor notation in general coordinates. The attempt is a failure. On the last line of p. 2 he adds together two zero tensors of different variance; as might be expected, this soon leads to errors: the quantity he singles out in line five of p. 3 is not a tensor except in rectangular Cartesian systems, nor is his final result (13) a tensor equation.

C. Truesdell.

ANGELITCH, T. P.

Angelitch, T. P. On the determination of the angular momentum operator in quantum mechanics<sup>2</sup> Bull. Soc. Math. Phys. Macédoine 6 (1955), 30-34. (Serbo-Croatian, English summary)  
An expression is derived for the square of the angular momentum operator which expression is claimed to hold in any arbitrary coordinate system. The formula is

$$M^2 = -\hbar^2 g_{\alpha\beta} \epsilon^{\alpha\gamma\delta} \frac{D}{Dx^\gamma} (x^\beta \epsilon^{\delta\epsilon} \frac{D}{Dx^\epsilon})$$

where  $x^\alpha$  are the contravariant coordinates of the position vector,  $g_{\alpha\beta}$  is the fundamental metric tensor of the Euclidean three dimensional space,  $D/Dx^\alpha$  the covariant derivatives with respect to the general coordinate  $x^\alpha$  and  $\epsilon^{\alpha\beta\gamma\delta}$  the Kronecker symbol of the fourth order.

M. J. Moravcsik (Upton, N.Y.).

Anglic, T. P. The Beltrami-Mitchell compatibility equations in general tensor form obtained from Saint-Venant's compatibility equations. Srpska Akad. Nauka. Zb. Rad. 55, Mat. Inst. 6 (1957), 1-4. (Serbo-Croatian. English summary)

2

In previous papers [Acad. Serbe Sci. Publ. Inst. Math. 5 (1953), 1-4; 9 (1956), 93-96; MR 15, 578; 18, 837], the author derived from the equations of equilibrium the Beltrami-Mitchell compatibility equations in tensor notation. Here he derives them again by starting from the compatibility equations in terms of strains. His result differs from that of M. Brdicka [Czechoslovak J. Phys. 3 (1953), 36-52; MR 15, 578] in taking into account body forces which Brdicka neglected.

T. Leser (Aberdeen, Md.)

SW  
11

ANGELITCH, T.P. [Andelic, T.P.]

A generalization of the concept of the Darboux vector for  
the Riemann space. Publ Inst math SANU 2(16):35-38 '62  
[publ. '63].

1. Membre du Comite de redaction, "Publications de l'Institut  
mathematique".

ZHELEVA, M.; ANGELKOVA, E.

A contribution to study of tyroglyphid fauna in Bulgaria.  
Godishnik Biol 56 no.1:141-149 '61-'62 [publ. '62].

1. Chair of Invertebrate Zoology of the Faculty of Biology,  
Geography, and Geology of the University of Sofia, Sofia (Head  
of the Chair: Prof. G.Kozarov).

24

ANGELOPULO, R.

Liming and pickling hides - K. Angelopulo and M. Sklovskii. *Kuzrenno-Obarazni Prom. S. S. S. R. 12, 280: 7(1933).*---The raw hides are soaked and cleaned, broken in a drum, placed on the rim of the washing container to run off the excess of water and washed repeatedly with fresh cold water. They are then fleshed, limed (for 5 days), washed in running water at 15°, delimed with acid and pickled with a soln. of 3% HCl and 80% NaCl of gravity 7.8°Bé. They are then unhaird, fat-liquored and washed.

A. A. Bochtling

ASS. S. L. A. METALLURGICAL LITERATURE CLASSIFICATION

HINGELOR, K.

The manufacture of welts from pig skins. K. Anger-  
pulo. *Kokshenn-Obernaya Prom. S. S. S. R.* 12, 2984  
(1933).—Leather prepd. from pig skins by a combined  
alum and vegetable tanning and greased with a mixt.  
of oil, lard and tar contained moisture 18, total ash 0.8,  
inot. ash 0.157, fat 10.20, total sol. matter 4.54, hide  
substance 41.7, combined tannins 24.99, and leather  
substance 60.74; the tanning factor was 59.9 and the  
yield factor 240. Breaking stress was 2.54 kg. per sq.  
mm. and elongation 25.75 mm. A. A. Bochiuk sk

AS 636 METALLURGICAL LITERATURE CLASSIFICATION



SEPTUAGINT, L., ASIA MINORICA, I.

Boots and Shoes - Trade and Manufacture

From Lagrands to leaders. Leg. prom. 12  
no. 4:35-36 Ap '52.

Monthly List of Russian Accessions, Library of  
Congress, July 1952. Unclassified

ANGELOPULO, K.I.

Workers in the shoe industry should have training in chemistry.  
Leg.prom. 17 no.4:18 Ap '57. (MLRA 10:4)

1. Glavnyy inzhener Groznenskoj fabriki.  
(Chemistry, Technical)  
(Shoe industry)

KARNAUKHOV, L. A.; ANGELOPULO, O. K.

Technical and economic effectiveness of drilling soft rocks with  
roller and blade bits. Neft. khoz. 38 no.7:43-46 J1 '60.  
(MIRA 14:10)

(Turbodrills)

ANGELOPULO, O.K.

Flushing wells when drilling under complex geological conditions.  
Neft.khoz. 38 no.8:48-51 Ag '60. (MIRA 13:8)  
(Oil well drilling fluids)

ANGELOPULO, O.K., inzh.

Drill with slitlike flushing canals. Neftianik 6 no.2:19-20  
F '61. (MIPA 14:10)

1. Groznenskiy nauchno-issledovatel'skiy neftyanoy institut.  
(Oil well drilling rigs)

ANGELOPULO, O.K.; KARNAUKHOV, L.A.

Effect of the type of bit on changes in the viscous properties  
of muds when drilling in clay formations. Neft. khoz. 40 no.6:  
35-36 Je '62. (MIRA 15:6)  
(Oil well drilling fluids)

KOCHESHKOV, Aleksandr Anatol'yevich; ZHELTOV, Yuriy Vasil'yevich;  
TOSUNOV, Eduard Mikhaylovich, ANGELOPULO, Oleg Konstantinovic;  
KOVALEV, A.G., vneshniy red.; MAKRAKOVA, L.F., ved. red.;  
YAKOVLEVA, Z.I., tekhn. red.

[Practices in well completion in the United States] Opyt zakanchivaniya skvazhin v SSHA. Moskva, Gostoptekhnizdat, 1962.  
171 p. (MIRA 16:2)

(United States--Oil fields--Production methods)

ANGELOPULO, Oleg Konstantinovich; ISAYEVA, V.V., ved. red.; VORONOVA,  
V.V., tekhn. red.

[Calcium-treated clay solutions; foreign practices] Kal'tsievye  
glinistye rastvory; zarubezhnyi opyt. Moskva, Gostoptekhnizdat,  
1962. 63 p. (MIRA 15:7)  
(Drilling fluids)



ANGELOPULO, O.K.

Measuring the specific weight of circulation mud. Neft.  
khoz. 42 no. 3:18-20 Mr '64. (MIRA 17:7)

ANGELOPULO, O.K.; MUKHIN, I.K.

Flow properties of clay muds. Izv. vys. ucheb. zav.; nefte'  
i gaz 7 no.11:20-24 '64. (MIRA 18:11)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I.M. Gubkina.

APANOVICH, Yu.G.; LIPSON, E.A.; ANGELOPULO, O.K.; ANDRESON, B.A.

Drilling the Aralsor well in the interval 0--5701 m. Neft. khoz.  
43 no.1:23-28 Ja '65. (MIRA 18:3)

ANGELOSCU, E.

B-8

RUMANIA/Physical Chemistry -- Thermodynamics, Thermochemistry,  
Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 5, 1958, 13785

Author : E. Angeloscu, C. Holszky.

Inst : "C.I. Parhon" University.

Title : Study of Nature of Aromatic Amine Molecular Compounds with  
Lower Alifatic Acids.

Orig Pub : An. Univ. "C.I. Parhon" Ser. stiint natur., 1956, No 12,  
77-96

Abstract : A generalization of the authors' investigation of ternary  
systems amine - acid - water and binary systems amine -  
acid is given. The following is discussed: amines - me-  
thyl- and dimethylaniline, ethyl- and diethylaniline,  
acids: formic ( $C_1$ ), acetic ( $C_2$ ), propionic ( $C_3$ ), etc.  
The stratification region increases in ternary systems in

Card 1/2

ANGELOV, A.

Contribution to the study of fresh water mollusks in Bulgaria.  
Izv Zool inst BAN 9:411-413 '60. (EEAI 10:9)

(Bulgaria—Mollusks)

ANGELOV, A.; BAROV, V.

"On the annual course of the zonal, meridional, and average transfers of air over the Soviet plain."

KHIDROLOGILA I METEOROLOGILA., Sofia, Bulgaria., No. 1, 1959

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), LC, Vol. 8, No. 7, July 1959, Unclass

BAKALSKA, V.; ANGELOV, A.

Effect of the lag between 2 consecutive stimuli on the reaction time. IV. Effect of brief preliminary periods. Izv. inst. fiziol. (Sofia) 6:99-107 '63.

(REACTION TIME)

BAKALSKA, V.; ANGELOV, A.

Effect of the relative stimulus frequency on the reaction time. Izv. inst. fiziol. (Sofia) 6:109-114 '63.

(REACTION TIME)



PARALOGA, V.; ANGELOV, A.; VASILEV, A.

effect of the relative frequency of signals on the reaction time.  
II. Izv. Inst. fiziol. (Sofia) 7:52-64, 1964.

LAMBREV, St., dr.; VIKTOROV, dr.; ANGELOV, dr.

Partial resection of the kidney in renal tuberculosis. Cas.lek.  
cesk. 91 no.39:1117-1121 26 Sept 52.

1. (Vojenska vseobecná nemocnice v Sofii), prof. dr. Kapitanov,  
(I. chirurgická klinika Lékařské akademie Václava Cervenky v Sofii).  
(TUBERCULOSIS, RENAL, surgery,  
nephrectomy, partial)

ANGELOV, A.

ANGELOV, A.; RADOEV, A.

Technic for special investigation of erythrocytes. *Suvrem. med.*,  
Sofia 5 no.1:80-82 1954.

1. Iz Detskata klinika pri Meditsinskata akademiia I.P.Pavlova,  
Plovdiv (direktor: dots. Iv. Andreev).  
(ERYTHROCYTES,

\*size & hemoglobin content, determ.)

ANGELOV, A.; RADOEV, A.; MILENKOV, Khr.; IANEV, N.; KARPANOV, M.

Peculiarities of atypical pneumonia in small children during 1954. Suvrem. med., Sofia 7 no.8:26-31 1956.

1. Iz Katedrata po detski bolesti (zav. kat: prof. Iv. Andreev), Katedrata po obshcha patologiya i patologichna anatomia (zav. kat.: prof. As. Prodanov), Katedrata po imunologiya i mikrobiologiya (zav. kat.: E. Ianev) i Katedrata po rentgenologiya (zav. kat.: prof. V. Mikhailov) pri VMI I.P. Pavlov - Plovdiv.  
(PNEUMONIA, in inf. and child  
clin. aspects of various forms)

ANGELOV, A.; RADOEV, A.; KARAPANCHEV, B.

~~Glucose~~ Glycemic curves in Botkin's disease. Suvrem. med., Sofia 7 no.11:  
73-76 1956.

1. Iz Katedrata po detski bolesti pri VMI I.P. Pavlov - Plovdiv  
(Zav. katedrata: prof. I. Andraev).  
(HEPATITIS, INFECTIOUS, blood in,  
sugar (Bul))

ANGELOV, A

|            |                                                                  |   |
|------------|------------------------------------------------------------------|---|
| Country    | : Bulgaria                                                       | T |
| Category   | : Human and Animal Physiology, Circulation                       |   |
| Abs. Jour. | : Ref Zhur Biol, No. 2, 1959, No. 8087                           |   |
| Institut.  | : Zhelyazkov D.; Angelov A.; Nikolov, A.; Kazakova, A.; Chu-     |   |
| Title      | : leva, A.; Mushkov, D.; Ignatova, E.; Nikolova, M.; Minchev, T. |   |
|            | : The Effect of the Bulgarian Synthetic Estrogenic Prepa-        |   |
|            | : ration "Vitestrol" on Blood Pressure.                          |   |
| Orig Pub.  | : Izv. Otd. biol. i med. nauki. Bolg. AN. Ser. eksperim.         |   |
|            | : biol. i med., 1957, No. 1, 47--55                              |   |
| Abstract   | : Vitestrol was injected in doses of 0.5, 1.3 and                |   |
|            | : 5 mg/kg into normal, atropinized, vagotomized and de-          |   |
|            | : cerebrate cats, as well as into cats with carotid              |   |
|            | : sinuses removed. Vitestrol lowered blood pressure by           |   |
|            | : 16--35% (depending upon the dose) within 72--395 seconds.      |   |
|            | : There were no substantial differences between the normal       |   |
|            | : and the operated animals. It is suggested that vitestrol       |   |
|            | : acts directly upon the smooth muscle elements of the           |   |
|            | : vessel walls.--S.B.Stefanov.                                   |   |
| Card:      | 1/1                                                              |   |

VAPTSAROV, I., dots; MIKHOVA, M.; ANGELOV, A.; TODOROVA, M.; MILENKOV, Kh.;  
POPOV, S.

The so-called collagen diseases with case reports. Suvrem. med., Sofia  
9 no.5:68-77 1958.

1. Iz Detskata klinika pri VMI I. P. Pavlov - Plovdiv (Zav. katedrata:  
prof. I. Andreev) i Patologoanatomichnia institut pri VMI I. P. Pavlov -  
Plovdiv (Zav. katedrata: prof. A. Prodanov).

(SCLERODERMA, case reports,

(Bul))

(PERIARTERITIS NODOSA, in inf. & child.  
fatal cases (Bul))

STOLANOV, I.; ANGELOV, A.

Fractures and luxations of the hand bones. Khirurgia, Sofia 13  
no. 2-3:247-250 '60.

1. Iz travmatologichnoto otdelenie pri Instituta za burza Medicinska  
pomoshht "N.I. Pirogov".  
(HAND fract. & disloc.)



ANDREEV, Iv.; VAPTSAROV, Iv.; MIKHOV, Iv.; ANGELOV, A.; YEVGENIYEV, Ye.  
[Evgeniev, E.; translator]; PROTOKHRISTOV, T. [translator];  
KLYUS, B. [Klius, B., translator]; TALAKOV, A., red.; RUSINOV, N.,  
tekhn. red.

[Differential diagnosis of the most important symptoms of  
children's diseases] Differentsial'naya diagnostika vazhneiших  
simptomov detskikh boleznei. Red. A. Talakov. Plovdiv, Gos. izd-  
vo im. Khristo G. Danova, 1962. 431 p. (MIRA 16:5)  
(CHILDREN--DISEASES) (DIAGNOSIS, DIFFERENTIAL)

ANGELOV, A.

KANTAREV, Konst.

Bulgaria

Academic Degree not given

Affiliation not given

Sofia, Pediatrica, supplement of Sovremenna Meditsina,  
No 3, 1962, pp 68-70.

"Review of Differential Diagnosis of the Most Important  
Symptoms of Children Diseases" by Iv. ANDREEV, Iv.  
VAPTSAROV, Khr. MIKHOV, and A. ANGELOV"

ORAKHOVATS, D.; PAPAZOVA, M.; ANGELOV, A.

Energy expenditure and basal metabolism in a group of the population over 60 years of age not engaged productive work. Izv. inst. fiziol. 5:91-101 '62.

(METABOLISM) (AGING) (BASAL METABOLISM)

ANGELOV, A., d-r

Sight of the skin. Priroda Bulg 12 no. 5: 74-78 S-0 '63.

1. Institut po fiziologija pri Bulgarskata akademiia na naukite.

ANDREYEV, Iv.[Andreev, Iv.]; VAPTSAROV, Iv.; KIKHOV, Khr.;  
ANGELOV, A.; YEVGEN'YEV, Ye.[translator];  
PROTOKHAISTOV, T.[translator]; KLYUS, B. [translator];  
TALAKOV, A., red.

[Differential diagnosis of the major symptoms of children's  
diseases. Translated from the Bulgarian] Differentsial'naya  
diagnostika vazhneishikh simptomov detskikh boleznei. [By]  
Iv.Andreev i dr. Plovdiv, Gos.izd-vo iz. Khristo g. Danova,  
1964. 443 p. (MIRA 17:9)

KHADZHIEV, D.; ANGELOV, A.

A case of penicillin epilepsy. Khirurgiia (Sofia) 17 no.1:  
112-113 '64

1. Iz khirurgichnoto otdelenie na Voenna bolnitsa, Plovdiv.

\*

STOIANOV, I.; ANGELOV, A.

Fractures of the bones of the extremities in patients over  
60 years of age. Khirurgiia 17 no.2:244-246 '64.

1. Iz Instituta za burza meditsinska pomosht "N.I.Pirogov".

VASIL V, P.; ANGELOV, At.

Gynecological neoplasms according to data of the clinic  
"Maichin Dom" (The problem of malignant tumors in 60  
years of the development of the clinic "Maichin Dom").  
Akush. ginek. (Sofia) 3 no. 4:103-109 '64



ANGELOV, A.; KARAPANCHEV, B.

On the nature of juvenile diabetes. Folia med. (Plovdiv) 7 no.2:  
92-98 '65.

1. Vysshiy meditsinskiy institut imeni I.P. Pavlova, g. Plovdiv,  
Bolgariya, kafedra detskikh bolezney (rukovoditel' - prof.  
Iv. Andreyev).

BAKALSKA, V.; ANGELOV, A.

Effect of equi-non-equiprobability distributed fore-periods on  
the reaction time. Izv. inst. fiziol. (Sofia) 8:259-270 '64

IVANOV, Dr.; ANGELOV, AL.; VASILOV, J.; RACILOVSKA, J.

Adapted control of ... and complications in legal  
abortion under total hypotinal anesthesia using intravenously  
methylethylmagnesium. Akush. ginek. (Sofia) 3: 1971-81, 1971.

ANGELLO, A.

BULGARIA/Cultivated Plants - Fruits, Berries

14-8

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1737

Author : V. Vasilev, A. Angelov, G. Anadoliev

Inst : Not Given

Title : The Cherry Tree in the Eastern Rodopi

Orig Pub : Ovoshcharstvo i gradinarstvo, 1956, No 5, 5-9

Abstract : The cherry tree is the most widespread cultivation in the Eastern Rodopi where it thrives on any soil and location, appears on flat ground as well as on slopes of up to 30°, in valleys and elevations of up to 900 m above sea level, it blooms early and bears fruit every year. Almost without care, the trees reach huge dimensions, up to 15 m in height, and yield crops of 50 to 200 kg from one tree. Besides the European varieties (Napoleon, Denisen, Drogan yellow and others), there are many local seed forms and kinds, as well as some improved wild forms. Some of the local kinds even form root shoots (a rather rare phenomenon for this sort). A description of 5 local varieties of the cherry is given: white (Akkirez), red (Kyrzakirez), black (Karakirez), Bitme (Khadzhi malebitme) and Droganka.

Card : 1/1

*ANGELLOV, A.*

BULGARIA/Cultivated Plants - Potatoes, Vegetables, Melons.

M-3

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10793

Author : Angelov, A., Miltov, Z.

Inst : -

Title : Let us Extend the Cultivation of Early Potato!

Orig Pub : Ovoshcharstvo i gradinarstvo, 1957, No 1, 38-43

Abstract : A short characterization is given of eight early varieties, among them two local Bulgarian varieties, and of the fundamental agricultural engineering techniques. There is a detailed exposition of the technique of growing light shoots on tubers. The advisability of utilizing early potato as the second crop is indicated.

Card 1/1

ANGELOV, A.

AGRICULTURE

Periodical KOOPERATIVNO ZEMEDELIE. No. 9 , Sept. 1958.

ANGELOV, A. Narrow-row sowing machine Rodina-TR-26. p. 26.

Monthly List of East European Accessions (EEAA) DC, Vol. 8, no. 3, March, 1959. Uncl.

ANGELOV, A., dots.; BONEV, D., inzh.

The water supply of Sofia from the Iskur Dam. Khidrotekh i melior  
7 no.9:287-288 '62.

FIKIIN, Angel; ANGELOV, Angel

Technological suitability of some strawberry varieties for  
deep freezing. Selskostop nauka 2 no. 3/4 388-396 '63.



ANGELOV, Angel S., prof.

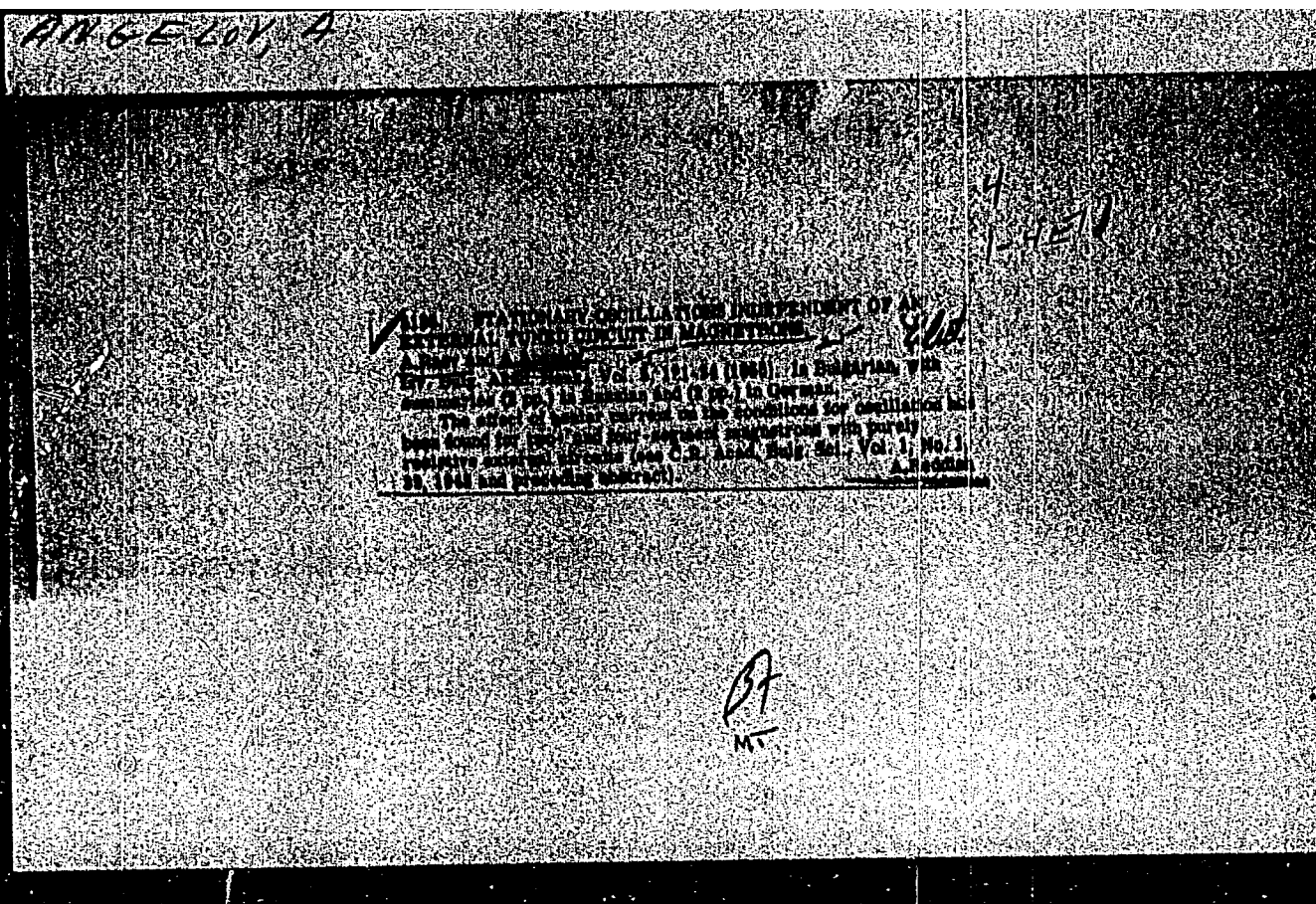
From the first steps toward clearing the road for free scientific research to a general united organization of Bulgarian scientists. Nauch zhivot 7 no.4:9 O-D '64.

ANGELOV, A.

Receiver antenna for ultra short waves and television. p. 39.

RADIO. (Ministerstvo na poshtite, telegrafite, telefonite i radioto i Tsentr-  
alniiia suvet na dobrovolnata organizatsiia za sudeistvie na otbranata)  
Sofiia. Vol. 4, no. 5, 1955

SOURCE: EAST EUROPEAN ACCESSIONS LIST, (EEAL), Library of Congress  
Vol. 4, no. 12, December 1955



ANGELOV, A.

Iconoscope in television camera. p. 35.

RADIO. Vol. 5, no.2, 1956

Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Library of  
Congress, Vol. 6, No. 1, January 1957

VASILOV, B.; ANGELOV, A.

"Microcarcinoma" of the cervix uteri. Akush. ginek. (Sofia)  
3 no.2:33-35 '64

ANGELOV, A.

ANGELOV, A. Television signals, p. 39.

Vol. 5, No. 3, 1956.

EDIC

TECHNOLOGY

Sofia, Bulgaria

So: East European Accession, Vol. 6, No. 2, Feb. 1957

ANGELCV, A.

Television receivers. p. 52 RADIO. (Ministerstvo na poshtite, telegrafite, telefonite i radioto i Tsentralniia suvet na dobrovolnata organizatsiia za subelstvie na otbranata) Sofiya. Vol. 5, No. 4, 1956

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 11, November 1956

ANGELOV, A.

Television receivers; the picture tube. p. 54.

RADIO. Vol. 5, no. 5, 1956

Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Library of  
Congress, Vol. 6, No. 1, January 1957



ANGELOV, A.

ANGELOV, A. The television channel. p. 40. Vol. 5, no. 10, 1956  
ELEKTROENERGIJA. Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957

ANGELOV, A.

ANGELOV, A. Television receivers, video amplifiers. p. 44. Vol. 5, no. 11,  
1956 ELEKTROENERGIJA. Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 1--April 1957

ANGELOV, A.

Television sets, channel of synchronization. p. 49.  
(Radio, Vol. 5, no. 12, 1956, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

ANGELOV, A.

Category : BULGARIA/Radiophysics - Generation and Conversion of Radio-frequency Oscillations

I-4

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4467

Author : Payev, A., Angelov, A.

Inst : Physics Institute of the University, Sofia, Bulgaria

Title : Stationary Oscillations in Magnetrons, Independent of the External Resonant Circuit

Orig Pub : Izv. Bblgar. AN. Otd. fiz.-matem. i tekhn. n., ser. fiz., 1956, 5, 121-134

Abstract : As a continuation of the investigations of non-resonant oscillations of two-segment magnetrons, carried out earlier by Rayev and Uzunov (Referat Zh. Fizika, 1956, 35396), the authors undertook a detailed study of the connection between the conditions of occurrence of these oscillations and the magnitude of the emission current. Experiments were carried out with two-segment Philips TAM 1.5/50 L magnetrons (anode radius  $r_a = 0.5$  cm, length of anode cylinder  $l_a = 2$  cm) and four-segmented Telefunken M8 50/14 R magnetrons ( $r_a = 0.45$  cm,  $l_a = 0.8$  cm). The basic parameter characterizing the non-resonant oscillations was taken to be the minimum value of the active resistance of the external aperiodic system,  $R'_{min}$ .

Card : 1/3

Category : BULGARIA/Radiophysics - Generation and Conversion of Radio-frequency Oscillations

I-4

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4467

at which the above oscillations can occur. In both cases,  $R'_{\min}$  diminishes with diminishing emission current and when the current was sufficiently small it was possible to obtain non-resonant oscillations even with short-circuited segments. A hypothesis is proposed that in the latter case the role of the active resistance between the segments, needed to maintain the oscillations, is played by the radiation resistance of the conductors, which is on the order of several tenths of an ohm. The wavelength of the investigated oscillation is subject to the known Posthumus law, with the constant having a value on the order of 1600. In the four-segment magnetron it was more difficult to obtain non-resonant oscillations; it was necessary to have for this purpose very small emission currents (approximately ten microamperes for the case of short-circuited segments). The limiting case of a magnetron with short-circuited segments to be investigated was a magnetron with a solid anode, in which non-resonant oscillations, obeying the Posthumus law, were also observed, with the constant ranging from 1700 to 1800. It is noted that owing to the absence of

Card : 2/3

Category : BULGARIA/Radiophysics - Generation and Conversion of Radio-  
frequency Oscillations

I-4

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4467

segments and to the absence of a tangential high-frequency field,  
it is difficult to explain the latter case within the framework  
of the qualitative theory developed earlier. Bibliography, 4 titles.

Card : 3/3

ANGELOV, A.

SCIENCE

Periodical: KHIDROLOGIJA I METEOROLOGIJA. No. 4, 1958

ANGELOV, A. An attempt to determine empirically the internal friction of the air in the three-kilometer near-the-ground atmospheric layer covering the District of Sofia. p. 58.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2  
February 1959, Unclass.

BAROV, Varvari B.; ANGELOV, Angel G.

The yearly rate of turbulence coefficient and turbulent exchange.  
Godishnik fiz mat 53 no.2:25-30 1958/1959 [publ. 1960].



BAROV, V.; ANGELOV, A.

The yearly rate of the coefficient of turbulence over north and  
south Bulgaria. Khidro i meteorolog no.1:35-42 '61. (EEAI 10:7)

(Bulgaria--Atmospheric turbulence)

ANGELOV, Angel; DINOV, Ventseslav

New system for switching the auxiliary coil of single-phase condensa-  
tor asynchronous motor. Elektroenergiia 12 no.6:16-20 '61.

(Electric motors, Synchronous)  
(Electric coils)

ANGELLO A.

- [illegible]

ANGELOV, Angel, inzh.; KOSTADINOV, Ivan, tekhn.

Experience of the DU "Zavodski stroezhi" in the application of tubular metal scaffoldings. Stroitelstvo 9 no.3:25-29 Mye '62.

ANGELOV, Angel

Sanitary and biologic analysis of the drinking water from the  
Rila Waterworks in Sofia. Godishnik biol 57 no.1:191-215  
'62-'63 [publ. '64].

IULZARI, Iliia, inzh.; ANGELOV, Angel, inzh;; MASLAROV, Ivan, inzh.

International Exhibition on Industrial Electronics. Tekhnika  
Bulg 13 no.1:29-32 '64.

1. Chlen na Redaktsionnata kolegiia, "Tekhnika".

ANGELOV, A., st. n. s.

On the seminar: "Basic problems in contemporary teaching of mathematics," Mat i fiz Bulg '7 no.6:49-50 N-D '64.

1. Pedagogic Institute at the Ministry of Public Education, Sofia.

BAROV, V.B.; ANGELOV, A.G.

Coefficient of turbulence depending upon the direction of the  
wind over the Sofia Plain. Khidro i meteorolog no.3:51-57 '62.



BAROV, Varvari B.; ANGELOV, Angel G.

Turbelence coefficient depending on geostrophic wind. Godishnik  
fiz mat 56 no.2:43-49 '61/'62 [publ. '63].

ANGELOV, Angel G.; BAROV, Varvari B.

Distribution of cloud frequency. Godishnik fiz mat 57:51-58  
'62/'63 [publ. '64].

ANGELOV, A. I.

3

Hydrocyclone. V. M. Borisov, I. Z. Margolin, and A. I. Angelov. U.S.S.R. 106,747, July 26, 1967. A cyclone for wet classification comprises conical and cylindrical parts with a disk-shaped diaphragm installed above them. The diaphragm is provided with a changeable axial tube. A fixed diaphragm having a coaxial changeable tube is installed between the diaphragm and an overflow cylinder. The 2 diaphragms delineate a water-filled chamber where solid particles thrown out by centrifugal forces of the ascending stream are collected.

M. Hosh

anf

SOV/64-58-6-11/15

AUTHORS: Piterskikh, G. P., Doctor of Technical Sciences, Professor,  
Angelov, A. I.

TITLE: The Laws Governing the "Separation" of Minerals in Heavy  
Suspensions in Hydrocyclones (Zakonomernosti razdeleniya  
mineralov v tyazhelykh suspenziyakh v gidrotsiklonakh)

PERIODICAL: Khimicheskaya promyshlennost', 1958, Nr 6, pp 364-370 (USSR)

ABSTRACT: If operating conditions are carefully selected it is possible  
to separate minerals which differ in density by  $0.1 \text{ g/cm}^3$   
according to the method referred to by the title. The reason  
why the method is rarely used is that the theory of the pro-  
cess has not yet been sufficiently studied and developed.  
The mineral grains move in the suspension of the weighting  
compound and trajectories are described by them which depend  
on the density and velocity of the suspension as well as on  
the density and size of the grains. In the present case the  
investigations were carried out with an aqueous suspension  
of magnetite. The density and distribution of grain sizes  
of the suspension samples were determined. A Pito tube was  
used for measuring the transverse velocities of the suspension.

Card 1/2

SOV/64-58-C-11/15

The Laws Governing the Distribution of Minerals in Heavy Suspensions in Hydrocyclones

The vertical velocities were measured by introducing, at regular intervals, an electrolyte solution into the suspension flow and measurement of the time it required for distribution. The electrodes used for these measurements were connected with the vibrators of the magnetoelectrical oscillograph MPO -2 by a resistor box P-1. A graphic representation of the density distribution of the suspension in the cyclone is given, as well as that of the peripheral velocity with data of the characteristic zones. A mathematical discussion of the motion of the mineral grains in the suspension follows, and it is stated, inter alia, that in the cyclone there are two zones in which the separation of the particles can be effected according to their density. The unit used for the experimental investigation is described and tables are given of the results obtained. The method is then explained by an example. There are 5 figures, 5 tables, and 1 reference, 1 of which is Soviet.

Card 2/2

AUTHOR: Angelov, A.I.

SOV/136-58-12-22/22

TITLE: Use of Hydrocyclones in the USA (Primeneniye gidro-tsiklonov v SShA)

PERIODICAL: Tsvetnyye Metally, 1958, Nr 12, pp 92 - 103 (USSR)

ABSTRACT: In this review of hydrocyclones practice in the USA, the author uses a recent American compilation of data (Ref 1). He compares (Table 3) the productivity formulae of D.A. Dahlstrom (Ref 2), A.I. Povarov (Ref 3) and I.R.M. Chaston (Ref 4), concluding that the last is suitable where high accuracy is not required, while Povarov's is more accurate but less simple. There are 3 tables and 4 references, 3 of which are English and 1 Soviet.

Card 1/1

USCOMM-DC-60579

5(1)

AUTHORS: Angelov, A. I., Tishchenko, T. P.

06231

SOV/64-59-6-23/28

TITLE: Coagulation of Phosphorite Mud

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 6, pp 537 - 539  
(USSR)

ABSTRACT: When the suggestion made by the GIGKhS concerning a second enrichment of phosphorite ore according to the flotation method was carried out in the Bryanskiy fosforitnyy zavod (Bryansk phosphorite plant) no effective coagulation of the stable mud was achieved. The granulometric characteristic values of the ground phosphorite ore, of the mud to be coagulated, and of the coagulated product are given (Table 1) and it is stated that the phosphorite pulp contains much stable mud (Table 2) and is consequently slow in settling out, which is the reason for the loss of fine fractions of the phosphate substance with the waste water. With A. I. Risovanny, B. S. Lakhter, N. M. Khlebalova, and V. G. Kemova participating, polyacrylic amide (proposed and produced by the Vsesoyuznyy nauchno-issledovatel'skiy institut galurgii (All-Union Scientific Research Institute of Halurgy))

Card 1/2

Coagulation of Phosphorite Mud

06231

SOV/64-59-6-23/28

was investigated as coagulating agent. The coagulating agent was introduced into the pulp tube by means of a funnel (Fig). From 5 experiments (Table 3) the following was found: the use of polyacrylic amide as coagulating agent decreases the loss of phosphate due to waste water 20 times. The optimum consumption of the coagulating agent is 25 g/t of phosphorite mud. When polyacrylic amide is used the solid substance content of the coagulated mud is 53% (up to a maximum of 56%). The coagulating agent should be added as close as possible to the point where the pulp enters the feeding funnel of the coagulator and should be thoroughly stirred. There are 1 figure, 3 tables, and 3 Soviet references.

Card 2/2



ANGELOV, A. I., Cand Tech Sci-- (diss) "Research into process of separation of minerals in a hydrocyclone set in heavy suspension." Lyubertsy, 1960. 20 pp; (Academy of Sciences USSR, Inst of Mining Affairs); 150 copies; price not given; (KL, 23-60, 123)

ANGELOV, A.I., GOIDER, Yu.Ya.

Electrostatic concentration of sylvinite and phosphorite  
ores. Khim.prom. 2:168-172 My '60. (MIRA 13:7)  
(Sylvinita) (Phosphorita) (Ore dressing)

ANGELOV, A.I.; NABIULIN, Yu.N.

Review of N.F. Olofinski's book "Electric methods of ore dressing." TSvet. met. 36 no.10:86-88 O '63. (MIRA 16:12)

ANTHONY, J.L., ROCHON, V.M.

Electrostatic concentration of phosphorite ores. Trans. prom.  
no. 41281-254 1p 164. (210) 17 2.

ANGELOV, A.I., kand. tekhn. nauk; NABIULIN, Yu.N., inzh.

Electrostatic separator for dressing phosphorite ores.  
Khim. i neft. mashinostr. no.3:1-4 S '64. (MIRA 17:12)

ANGELOV, A.P., st. nauchen sutrudnik

Nomograms of leveling points. Mat i fiz Bulg 6 no.2:45-55  
Mr-Ap '63.

1. Pedag. institut na BAN.

ANGELOV, A. S.

А. В. Широткин

Разработка технических решений по передаче по телеграфной линии цифровой информации с использованием кодовой аппаратуры

Г. М. Поляков

Исследование влияния условий среды на работу аппаратуры

Н. Н. Жалов

Исследование работ по строительству и эксплуатации линий связи и радиосвязи на железнодорожных станциях

12 июня  
(с 10 до 15 часов)

Б. П. Терентьев

К. Е. Волков

Электронный телеграфный аппарат

В. В. Мухомов

В. М. Карпов

Электронные датчики автоматической системы

Р. А. Курочкин

Анализ и выбор электрической схемы фотоаппарата с автоматической регулировкой выдержки

24

12 июня  
(с 18 до 22 часов)

Г. А. Емельянов

О влиянии разности потенциалов на работу аппаратуры при передаче и приеме информации по кодовой телеграфной аппаратуре

А. С. Юсупов

Повышение эффективности использования канала связи при фотоаппаратуре

В. М. Карпов

Комбинированные системы телеграфной аппаратуры

4 СЕКЦИЯ ТЕЛЕГРАФИИ

Руководитель С. Н. Ветров

9 июня  
(с 10 до 16 часов)

В. Г. Косов

А. С. Антонов

Телеграф на полупроводниковых приборах

Ю. Н. Сидоров

Внешний канал автоматической радиосвязи

25

report submitted for the Centennial Meeting of the Scientific Technological Society of  
Radio Engineering and Electrical Communications in A. S. Popyov (VSEIE), Moscow,  
6-12 June, 1959

ANGELOV, A. S., Cand Tech Sci -- (diss) "Research into generators of television horizontal sweep by semi-conductor devices." Moscow, 1960. 12 pp; (Ministry of Communications USSR, Moscow Electrical Engineering Inst of Communications); 150 copies; price not given; printed on duplicating apparatus; (KL, 19-60, 133)





ANGELOV, B.

Radko Kostov, electrical electrical; a profile. p. 45.

Vol. 7, No. 8. 1955. TRANSPORTNO DE O. Sofiya, Bulgaria.

SOURCE: East European Accessions List (EEAL) Library  
of Congress, Vol. 5, No. 1, January, 1956.

[1/1]

Dr. Val Boris MAGDOV, Medical Corps (Militia physician.)

The Effects of Penicillin and Isopteryoin Treatment.

et al. "Gigant Meditsinskoe Delo," Vol 7, No. 1, Dec 1, 1971, 20-25.

[Abstract: Russian summary modified:] Report and discussion of the literature and 1 of author's own cases, 2 with status epilepticus following probable contact of penicillin preparation with brain tissue during cranial surgery; 1 of the 2 ended fatally, and the second still recovered probably only because of the thorough saline irrigation of the area. Six case reports, 3 Soviet and 3 Western references plus many authors cited in the text without bibliographic data.

[1/1]

ANGELOV, Boris, tekhnik po polivaneto

Application of the irrigation technique to the new areas. Khidrotekh  
i melior 7 no.5:159 '62.

1. Trudovo kooperativno zemedelsko stopanstvo S. Brusartsi.

ANGELOV, B. Dim.

Metallurgy of the stone. Priroda Bulg 11 no.5:19-24 S-0 '62.

.. ANGELOV, Borislav Dim.

New minerals in the Madzharovo deposit. Prir i znanie 13 no.5:12-14  
My '60. (EEAI 9:11)  
(Bulgaria--Minerals)

ANGELOV, Boniu St.

A new archaeographic work on Slavic manuscripts: "The Ust'-  
TSil'ma manuscript collections, 16th-20th centuries" by  
Vladimir Ivanovich Malyshev. Reviewed by Boniu St. Agnelov.  
Spisanie BAN 6 no.4:104 '61.

ANGELOV, B.P.

Chemical Abst.  
Vol. 48 No. 8  
Apr. 25, 1954  
Electronic Phenomena and Spectra

(3)  
The action of an electron beam on the sensitive layer of a photoelectric cell. B. P. Angelov, E. M. Lobanov, and S. V. Stupodubov. *Phys. Rev.* 1954, 85, 734-740. For beam electrons accelerated to 1000 v., external current  $I_e$  is a linear function of beam current  $I_b$  up to  $I_b \sim 4 \times 10^{-4}$  amp.; above this,  $I_e$  increases more slowly for both Se and AgS cells.  $I_e$  is a linear function of voltage drop across an external resistance for  $I_b \sim 50 \text{ to } 100 \times 10^{-4}$  amp. Short-circuit current ( $I_{sc}$ ) and open-circuit voltage  $E_o$  at first increase linearly with  $I_b$  for the AgS cell; at  $I_b \sim 10^{-3}$  amp., however, ( $I_{sc}$ ) reaches a sat. value of  $\sim 10^{-3}$  amp. and  $E_o$  a sat. value of  $\sim 57 \times 10^{-3}$  v. for both cells increased with bombarding electron energy up to  $\sim 9$  kv. and then leveled off at 110 and 170 for the Se and AgS cells, resp.

*Handwritten:* 10/3/54



Physics - Photocells, Sensitive Layer  
"Action of a Flow of Electrons on the Sensitive Layer of Tube Photocells", "B. P. Angelov, Ye. M. Lobanov, S. V. Starodubtsev  
"Dok Ak Nauk SSSR" Vol 85, No 4, p 733-735  
Studies the dependence of the current in the external circuit of electron-tube elements, which are exposed to an electron beam, upon energy (800-20,000 eV) and an electron beam. Concludes that exposure of a tube photocell to an electron beam leads to the formation of a tube emf of the same sign as the photo-emf, and that electron beams can be utilized to study the properties of blocking layers in tube photocells. Submitted by Acad. P. I. Lukirsky  
3 Jun 52, who, the article states, showed continued interest in this work.

1 Aug 52

221112

ANGELOV, Ch.

"Application of the nomenclature of reinforced-concrete parts for dwellings built with heavy construction machinery."

STRASTELSTVO: Vol. 6, No. 4, 1959; Sofia, Bulgaria

Monthly list of EAST EUROPEAN ACQUISITION INDEX (EAI), Library of Congress, Vol. 6, No. 8, August, 1959

Unclassified

ANGELOV, Ch., inzh.

Portable reinforced concrete roads for the open mines. Min delo 16  
no.12:12-14 '61.

1. Komitet po promishlenosti.

(Reinforced concrete) (Mines)

ANGELOV, D.

DAVIDOV, Sl., prof.; KAVRAKIROV, V., dots.; PENEV, Zl.; ANGELOV, D.;  
DEVETAKOV, M.; BORIMECHKOV, L.

Traumatic injuries of the jaw region in Bulgaria. Stomatologiya,  
Sofia no.3:174-183 1954.

1. Iz Katedrata po khirurgichna stomatologiya pri Meditsinskata  
akademiia V.Chervenkov, Sofia. Zav. katedrata: prof. Sl.Davidov.  
(JAWS, wounds and injuries,  
statist., Bulgaria)  
(WOUNDS AND INJURIES,  
jaws, statist., Bulgaria)